

BAR BASE

PURPOSE

Specifies the base location for bars on plots.

DESCRIPTION

See the documentation for the BAR command for a description of the various types of bar charts that DATAPLOT can generate.

Bars are drawn from the base number to the specified Y coordinate. Bar bases are specified by trace. The typical use of this command is to define a non-zero base.

SYNTAX 1

BAR BASE <number> <number> <number> etc.

where <number> is a decimal number or parameter that specifies the desired bar base. Up to 100 bar bases can be specified.

SYNTAX 2

BAR BASE AUTOMATIC <y>

where <y> is a variable whose elements are used as arguments to the BAR BASE command.

This syntax is most often used when creating stacked bar charts where the base varies at each bar. See the second program example for the BAR command to see how this is done.

EXAMPLES

BAR BASE 0. 0. 10.

BAR BASE 0. ALL

NOTE

The BAR BASE command with no arguments sets the bar base to 0. for all traces. The BAR BASE command with the word ALL before or after the specified base assigns that bar base to all traces. Thus BAR BASE 0. ALL or BAR BASE ALL 0. uses a base of 0. for all traces.

DEFAULT

All bar bases are set to zero.

SYNONYMS

None

RELATED COMMANDS

PLOT	=	Generates a data or function plot.
BAR	=	Sets the on/off switches for bars on plots
BAR FILL	=	Sets the on/off switches for plot bar fills.
BAR FILL COLOR	=	Sets the colors for bar fills.
BAR DIMENSION	=	Sets the bar dimensions to 2d or 3d.
BAR DIRECTION	=	Sets the bar directions to horizontal or vertical.
BAR PATTERN	=	Sets the types for bar fill patterns.
BAR PATTERN COLOR	=	Sets the colors for bar fill patterns.
BAR PATTERN LINE	=	Sets the line types for bar fill patterns.
BAR PATTERN SPACING	=	Sets the line spacings for bar fill patterns.
BAR PATTERN THICK	=	Sets the line thicknesses for bar fill patterns.
BAR BORDER COLOR	=	Sets the colors for bar border lines.
BAR BORDER LINE	=	Sets the types for bar border lines.
BAR BORDER THICKNESS	=	Sets the line thicknesses for bar border lines.
BAR WIDTH	=	Sets the widths for plot bars.

APPLICATIONS

Presentation Graphics

IMPLEMENTATION DATE

Pre-1987 (the BAR BASE AUTOMATIC option was implemented 93/10)

PROGRAM

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LET CARTER = DATA 66 30 11 43 44 41 35 82 54 36
LET REAGAN = DATA 26 54 84 47 51 51 52 14 36 55
LET X = DATA 1 2 3 5 6 7 8 10 11 12
LET X1 = X - 0.1
LET X2 = X + 0.1
.
HORIZONTAL SWITCH ON
YLIMITS 1 12
YTIC OFFSET 1 1
Y1TIC MARK LABEL FORMAT ALPHA
Y1TIC LABEL CONTENT DEMOCRATS INDEPENDENTS REPUBLICANS SP() EAST ...
        SOUTH MIDWEST WEST SP() BLACKS HISPANICS WHITES SP()
MINOR Y1TIC MARK NUMBER 0
X1LABEL PERCENT; XLIMITS 0 100
MAJOR XTIC MARK NUMBER 11; MINOR XTIC MARK NUMBER 1
.
LINE BLANK BLANK SOLID
BAR BASE 50 ALL; BAR ON ON OFF
BAR WIDTH 0.2 ALL; BAR FILL ON ON OFF
BAR FILL COLOR G25 G75
TITLE BAR CHART WITH BASE AT 50%; TITLE SIZE 5
LET ZX = DATA 1 12; LET ZY = DATA 50 50
PLOT CARTER X1 AND
PLOT REAGAN X2 AND
PLOT ZY ZX
BOX FILL PATTERN ON; BOX FILL COLOR G25; BOX 70 85 73 88
JUSTIFICATION LECE; MOVE 74 86.5; TEXT CARTER
BOX FILL COLOR G75; BOX 70 80 73 83
MOVE 74 81.5; TEXT REAGAN
    
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